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Sequence Listing was accepted.

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Reviewer: Anne Corrigan

Timestamp: [year=2007; month=11; day=28; hr=9; min=55; sec=58; ms=674; ]

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Application No: 10579090 Version No: 1.0

**Input Set:**

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**Finished:** 2007-11-07 15:28:40.427  
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**Total Warnings:** 18  
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**No. of SeqIDs Defined:** 18  
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SEQUENCE LISTING

<110> UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC.

<120> DNA SEQUENCE AND EXPRESSED RECOMBINANT GLYCOPROTEINS  
RELATED TO FELINE THYROTROPIN

<130> 235-00540201

<140> 10579090

<141> 2007-11-07

<150> PCT/US04/03779

<151> 2004-11-12

<150> 60/534,205

<151> 2004-01-05

<150> 60/519,302

<151> 2003-11-12

<160> 18

<170> PatentIn Ver. 3.3

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Thr Arg Asp Ile Asn Gly Lys Leu Phe Leu Pro Lys Tyr Ala Leu Ser  
35 40 45

Gln Asp Val Cys Thr Tyr Arg Asp Phe Leu Tyr Lys Thr Val Glu Ile  
50 55 60

Pro Gly Cys Pro His His Val Thr Pro Tyr Phe Ser Tyr Pro Val Ala  
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Val Ser Cys Lys Cys Gly Lys Cys Asn Thr Asp Tyr Ser Asp Cys Ile  
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Arg Lys Glu Cys Ala Tyr Cys Leu Thr Ile Asn Thr Thr Ile Cys Ala
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Tyr Ala Leu Ser Gln Asp Val Cys Thr Tyr Arg Asp Phe Leu Tyr Lys  
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Thr Val Glu Ile Pro Gly Cys Pro His His Val Thr Pro Tyr Phe Ser  
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Gln Gly Cys Pro Glu Cys Lys Leu Lys Glu Asn Lys Tyr Phe Ser Lys  
 35                    40                    45

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50 55 60

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Ile Thr Ser Glu Ala Thr Cys Cys Val Ala Lys Ala Phe Thr Lys Ala  
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Pro Gly Cys Pro His His Val Thr Pro Tyr Phe Ser Tyr Pro Val Ala  
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Val Ser Cys Lys Cys Gly Lys Cys Asn Thr Asp Tyr Ser Asp Cys Ile  
85 90 95

His Glu Ala Ile Lys Thr Asn Asp Cys Thr Lys Pro Gln Lys Ser Asp  
           100                     105                     110

Val Val Gly Val Ser Ile Gln Asp Ser Ser Ser Ser Lys Ala Pro Ser  
115 120 125

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130 135 140

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145 150 155 160

Glu Cys Lys Leu Lys Glu Asn Lys Tyr Phe Ser Lys Leu Gly Ala Pro  
165 170 175

Ile Tyr Gln Cys Met Gly Cys Cys Phe Ser Arg Ala Tyr Pro Thr Pro  
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195 200 205

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His His Lys Ile

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35 40 45

Gly Tyr Cys Met Thr Arg Asp Ile Asn Gly Lys Leu Phe Leu Pro Lys  
50 55 60

Tyr Ala Leu Ser Gln Asp Val Cys Thr Tyr Arg Asp Phe Leu Tyr Lys  
65 70 75 80

Thr Val Glu Ile Pro Gly Cys Pro His His Val Thr Pro Tyr Phe Ser  
85 90 95

Tyr Pro Val Ala Val Ser Cys Lys Cys Gly Lys Cys Asn Thr Asp Tyr  
100 105 110

Ser Asp Cys Ile His Glu Ala Ile Lys Thr Asn Asp Cys Thr Lys Pro  
115 120 125

Gln Lys Ser Asp Val Val Gly Val Ser Ile Gln Asp Ser Ser Ser Ser  
 130 135 140  
  
 Lys Ala Pro Ser Ala Ser Leu Pro Ser Pro Thr Arg Leu Pro Gly Pro  
 145 150 155 160  
  
 Ser Asp Thr Pro Ile Leu Pro Gln Phe Pro Asp Gly Glu Phe Thr Met  
 165 170 175  
  
 Gln Gly Cys Pro Glu Cys Lys Leu Lys Glu Asn Lys Tyr Phe Ser Lys  
 180 185 190  
  
 Leu Gly Ala Pro Ile Tyr Gln Cys Met Gly Cys Cys Phe Ser Arg Ala  
 195 200 205  
  
 Tyr Pro Thr Pro Ala Arg Ser Lys Lys Thr Met Leu Val Pro Lys Asn  
 210 215 220  
  
 Ile Thr Ser Glu Ala Thr Cys Cys Val Ala Lys Ala Phe Thr Lys Ala  
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 Gln Ala Met Ser Phe Cys Phe Pro Thr Glu Tyr Met Met His Val Glu  
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agg aaa gag tgt gct tat tgc cta acc atc aac acc acc atc tgt gct 144  
 Arg Lys Glu Cys Ala Tyr Cys Leu Thr Ile Asn Thr Thr Ile Cys Ala  
 35 40 45

gga tat tgt atg aca cgg gat atc aat ggc aaa ctg ttt ctt ccc aaa 192

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																240
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act	gta	gaa	ata	cca	gga	tgc	cca	cac	cat	gtt	act	ccc	tat	ttc	tcc	288
Thr	Val	Glu	Ile	Pro	Gly	Cys	Pro	His	His	Val	Thr	Pro	Tyr	Phe	Ser	
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tac	ccg	gta	gct	gta	agc	tgt	aaa	tgt	ggc	aag	tgt	aat	act	gac	tat	336
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115										120						125
cag	aag	tcc	gat	gtg	gta	gga	gtt	tct	atc							417
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accatcaaca ccaccatctg tgctggatat tgtatgacac gggtagttag ttcatctcac 180  
ttcttttagc tgaaaattag ataaacctag actcagtccaa tttctatccaa gaaaggaaat 240  
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ccctaggtta taatatacgg acctactccaa tacagtttgtt acagataatt tttacaatag 360  
ttttactccc aaagtttatt taaaaccttat cttgttccca cgtatcaagga taaaagagag 420  
gtgtgtgtgt atgtcatttt tttttgtctc tataggattc agtgtggata tgctgaattt 480  
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tcttcccaaa tatgctctgt cccaaagatgt ttgcacccatc agagacttcc tgcataaagac 660  
tgtagaaata ccaggatgcc cacaccatgt tactccctat ttctcctacc cggttagctgt 720  
aagctgtaaa tgtggcaagt gtaataactga ctatagcgac tgcatacatg aggccatcaa 780  
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ttctccagag cataccccac tccagcaagg tccaagaaga caatgttgtt cccaaagaac 240  
atcacctcag aagccacatg ctgtgtggcc aaagccctta ccaaggccac ggtatggga 300

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Met Asp Tyr Tyr Arg  
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aaa tat gca gct gtc att ctg gcc ata ctc tct gtg ttt ctg cat att 162  
Lys Tyr Ala Ala Val Ile Leu Ala Ile Leu Ser Val Phe Leu His Ile  
10 15 20

ctc cat tct ttt cct gat gga gag ttt aca atg cag ggg tgc cca gaa 210  
Leu His Ser Phe Pro Asp Gly Glu Phe Thr Met Gln Gly Cys Pro Glu  
25 30 35

tgc aag cta aag gaa aac aaa tac ttc tcc aag ttg ggt gcc cca att 258  
Cys Lys Leu Lys Glu Asn Lys Tyr Phe Ser Lys Leu Gly Ala Pro Ile  
40 45 50

tat caa tgc atg ggc tgc ttc tcc aga gca tac ccc act cca gca 306  
Tyr Gln Cys Met Gly Cys Phe Ser Arg Ala Tyr Pro Thr Pro Ala  
55 60 65

agg tcc aag aag aca atg ttg gtc cca aag aac atc acc tca gaa gcc 354  
Arg Ser Lys Lys Thr Met Leu Val Pro Lys Asn Ile Thr Ser Glu Ala  
70 75 80 85

aca tgc tgt gtg gcc aaa gcc ttt acc aag gcc acg gta atg gga aat 402  
Thr Cys Cys Val Ala Lys Ala Phe Thr Lys Ala Thr Val Met Gly Asn  
90 95 100

gcc aaa gtg gag aat cac aca gag tgc cac tgc agc act tgc tat cac 450  
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cac aag att

His Lys Ile

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459

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Arg	Lys	Glu	Cys	Ala	Tyr	Cys	Leu	Thr	Ile	Asn	Thr	Thr	Ile	Cys	Ala		
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gga	tat	tgt	atg	aca	cgg	gat	atc	aat	ggc	aaa	ctg	ttt	ctt	ccc	aaa		192
Gly	Tyr	Cys	Met	Thr	Arg	Asp	Ile	Asn	Gly	Lys	Leu	Phe	Leu	Pro	Lys		
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tat	gct	ctg	tcc	caa	gat	gtt	tgc	acc	tac	aga	gac	ttc	ctg	tac	aag		240
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Thr	Val	Glu	Ile	Pro	Gly	Cys	Pro	His	His	Val	Thr	Pro	Tyr	Phe	Ser		
85																95	

tac	ccg	gta	gct	gta	agc	tgt	aaa	tgt	ggc	aag	tgt	aat	act	gac	tat		336
Tyr	Pro	Val	Ala	Val	Ser	Cys	Lys	Cys	Gly	Lys	Cys	Asn	Thr	Asp	Tyr		
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Ser	Asp	Cys	Ile	His	Glu	Ala	Ile	Lys	Thr	Asn	Asp	Cys	Thr	Lys	Pro		
115																125	

cag	aag	tcc	gat	gtg	gta	gga	gtt	tct	atc	cag	gac	tcc	tct	tcc	tca		432
Gln	Lys	Ser	Asp	Val	Val	Gly	Val	Ser	Ile	Gln	Asp	Ser	Ser	Ser	Ser		
130																140	

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Lys	Ala	Pro	Ser	Ala	Ser	Leu	Pro	Ser	Pro	Thr	Arg	Leu	Pro	Gly	Pro		
145																160	

tcg	gac	acc	ccg	atc	ctc	cca	caa	ttt	cct	gat	gga	gag	ttt	aca	atg		528
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Ser Asp Thr Pro Ile Leu Pro Gln Phe Pro Asp Gly Glu Phe Thr Met  
165 170 175

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Gln Gly Cys Pro Glu Cys Lys Leu Lys Glu Asn Lys Tyr Phe Ser Lys  
180 185 190